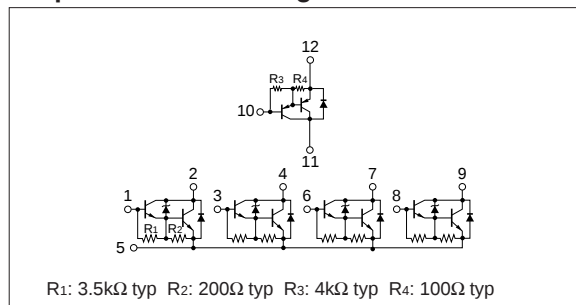


Absolute maximum ratings

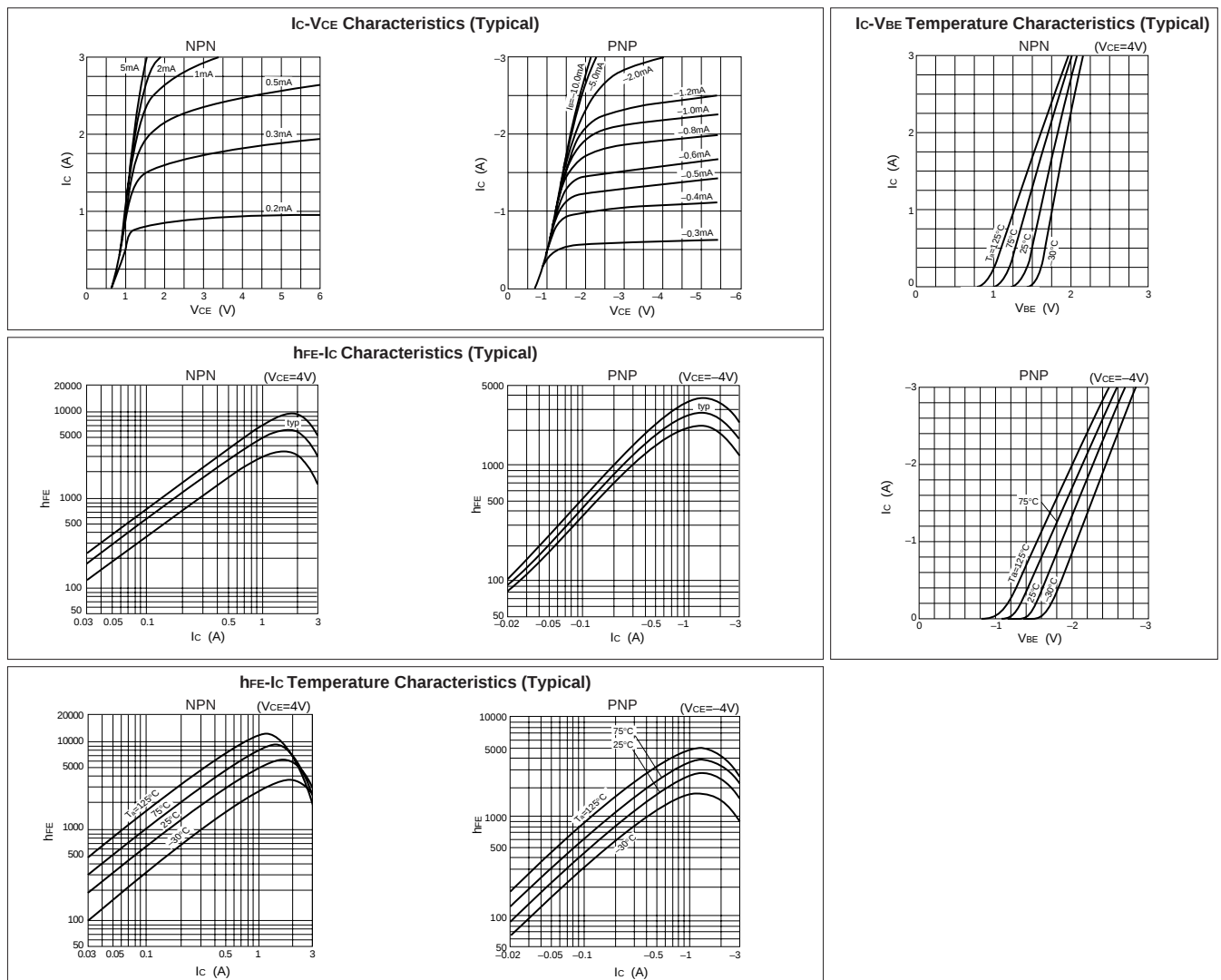
(T_a=25°C)

Symbol	Ratings		Unit
	NPN	PNP	
V _{CBO}	100±15	−60	V
V _{CEO}	100±15	−60	V
V _{EBO}	6	−6	V
I _{CP}	1.5	−3	A
I _B	0.5	−0.5	A
P _T	4 (T _a =25°C)		W
	20 (T _c =25°C)		
T _j	150		°C
T _{stg}	−40 to +150		°C

Equivalent circuit diagram



Characteristic curves



Electrical characteristics

($T_a=25^\circ\text{C}$)

Symbol	NPN					PNP				
	Specification			Unit	Conditions	Specification			Unit	Conditions
	min	typ	max			min	typ	max		
ICBO			10	μ A	$V_{CB}=85V$			-10	μ A	$V_{CB}=-60V$
IEBO			5	mA	$V_{EB}=6V$			-10	mA	$V_{EB}=-6V$
VCEO	85	100	115	V	$I_C=10mA$	-60			V	$I_C=-10mA$
hFE	2000				$V_{CE}=4V, I_C=1A$	2000				$V_{CE}=4V, I_C=-1A$
VCE(sat)			1.5	V	$I_C=1A, I_B=2mA$			-1.5	V	$I_C=-1A, I_B=-2mA$

■ Characteristic curves

